

USA Ground Operations CIL Sheet

Critical Item: Valve, Butterfly
NASA Part No: None
Mfg/Part No: Jamesbury Corp / 3-815-11-2236MT
System: Facility Water System

Criticality Category: 1S
Total Quantity: 3

Find No.	Qty	Area	PMN	Baseline	Drawing / Sheet
A156593 (V-300)	1	Pad-B	K60-0045-01	007.00	79K40019 / 18
A156600 (V-301)	1	Pad-B	K60-0045-01	007.00	79K40019 / 18
A159872 (V-280)	1	Pad-B	K60-0042-01	007.00	79K40019 / 3

Function:

Controls Firex water flow to the associated area.

Failure Mode No. Failure Mode	Failure Cause Failure Effect	Detection Method Time to Effect	Crit Cat
09SY03B-002.001 Fail Closed	Corrosion, contamination, or structural failure of internal piece part Loss of firex water flow to the associated area could result in loss of life and/or vehicle during a hazardous condition.	Valve position switch Immediate	1S

ACCEPTANCE RATIONALE

Design:

- Rated working pressure is 285 psig.
- Actual working pressure is 220 psig.
- Rated temperature (degrees Fahrenheit) -20 to 195.
- Actual temperature is ambient pad temperature.

Test:

- OMI M2067 requires cycling of FSS/RSS water valves to verify proper operation.
- OMI M2088 requires cycling of perimeter area water valves to verify proper operation.
- OMRSD, File VI requires verification of the operational function of the water valves in all modes of operation semiannually (service structure), annually (perimeter area), and at replacement.
- Manufacturer hydrostat test 450 psig.

Inspection:

- OMI 6045 requires the inspection of the firex valves for signs of corrosion and/or contamination.

Failure History:

- Current data on test failures, unexplained anomalies, and other failures experienced during ground processing activities can be found in the PRACA database. The PRACA database was researched and no failure data was found on this component in the critical failure mode.
- The GIDEP failure data interchange was researched and no failure data was found on this component in the critical failure mode.

Operational Use:

Correcting Action	Timeframe
There is no action which can be taken to mitigate the failure effect.	Since no correcting action is available, timeframe does not apply.